

Dipole impedance and return loss Validation

Frequency (MHz)	Return Loss (dB)	Impedance ($\Omega + j\Omega$)	Date	Return Loss (dB)	Impedance ($\Omega + j\Omega$)	Errors (dB%)	Errors (Ω %)	Date
2450	-21.39	47.82 Ω +5.51j Ω	2022.11.25	-23.57	46.33 Ω +3.07j Ω	10.19	-3.12	2023.11.25
5200	-22.83	55.07 Ω +1.87j Ω	2022.11.25	-23.01	53.90 Ω +2.08j Ω	0.79	-2.12	2023.11.25
5400	-26.37	50.23 Ω +0.91j Ω	2022.11.25	-26.79	50.71 Ω +7.19j Ω	1.59	0.96	2023.11.25
5600	-29.30	50.77 Ω +7.90j Ω	2022.11.25	-26.09	51.37 Ω +0.88j Ω	-10.96	1.18	2023.11.25
5800	-26.09	42.39 Ω +2.35j Ω	2022.11.25	-27.84	40.99 Ω +3.96j Ω	6.71	-3.30	2023.11.25

Remark:

Referring to KDB865664D01, if dipoles are verified in retur loss (<-20dBm,within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.